

WHAT IS CLAIMED IS:

1. An objective lens driving apparatus comprising:
 - a lens holder as a movable part, which holds an objective lens;
 - a stationary part that supports said lens holder in such a manner that said lens holder is movable in a direction of an optical axis of said objective lens and rotatable about a rotation axis parallel to said optical axis;
 - a magnet mounted to said stationary part, said magnet being polarized in a direction toward or away from said rotation axis;
 - a focusing coil mounted to said lens holder, said focusing coil having a side substantially perpendicular to said optical axis and to said direction of polarization of said magnet;
 - a tracking coil mounted to said lens holder, said tracking coil having a side substantially parallel to said optical axis,
 - a magnetic path forming member that forms a magnetic path in which a magnetic field caused by said magnet passes through said side of said focusing coil and said side of said tracking coil;
 - a current supplying member that supplies current to said focusing coil and said tracking coil; and
 - an urging member causing a magnetic force in combination with said magnet, for urging said lens holder toward a reference position in a direction of said optical axis and in a direction of the rotation of said lens holder,
- wherein said urging member is made of a magnetic material and has a shape surrounding said rotation axis, and the dimension of said urging member in the direction of said optical axis is smaller than that of said magnet.
2. The objective lens driving apparatus according to claim 1, wherein said urging member has at least one projection projecting substantially in parallel to the direction of the polarization of said magnet.

3. The objective lens driving apparatus according to claim 1, wherein said urging member has an asymmetric shape about said rotation axis in a plane perpendicular to said rotation axis.

4. The objective lens driving apparatus according to claim 2, said side of said tracking coil substantially faces the center of said magnet in the direction of the rotation of said lens holder, and said projection of said urging member substantially faces the end of said magnet in the direction of the rotation of said lens holder.

5. The objective lens driving apparatus according to claim 1, wherein the positions of said urging member and said focusing coil are different from each other in the direction of said optical axis.